



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 93716

TO: Robert (Rei-Tsang Shiao
Location: 3d08 / 3d19
Tuesday, May 27, 2003
Au: 1626
Serial Number: 10 / 035783

From: Jan Delaval
Location: Biotech-Chem Library
CM1-1E07
Phone: 308-4498

jan.delaval@uspto.gov

Search Notes

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 -- 703-308-4498
jan.delaval@uspto.gov



STIC SEARCH RESULTS

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact:*

Mary Hale, Information Branch Supervisor
308-4258, CM1-1E01

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library CM1 – Circ. Desk



ask
Jan Delaval
on Feb 27/03

Access DB# 93217
7-116

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: _____ Examiner #: _____ Date: _____
 Art Unit: _____ Phone Number 30 _____ Serial Number: 10035783
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

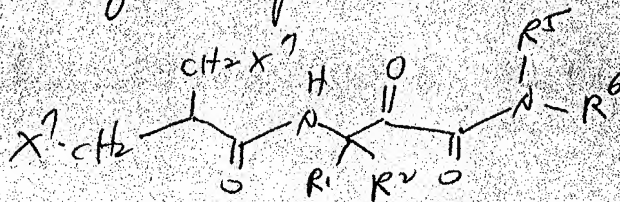
Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

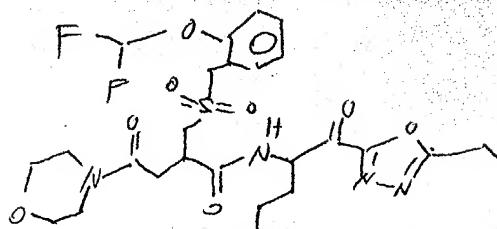
IV search for cpd IV



RECEIVED
M1-8
R1, R2, R5, R6,
X1 ne sub.

V method for use of cpd I - cpd IV

VI search
cpd VI



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Reference Librarian
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CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

STAFF USE ONLY

Searcher: _____
 Searcher Phone #: 4498
 Searcher Location: _____
 Date Searcher Picked Up: 5/27/03
 Date Completed: 5/27/03
 Searcher Prep & Review Time: _____
 Clerical Prep Time: 15
 Online Time: 30

Type of Search

NA Sequence (#) _____
 AA Sequence (#) ✓
 Structure (#) ✓
 Bibliographic _____
 Litigation _____
 Fulltext _____
 Patent Family _____
 Other _____

Vendors and cost where applicable

STN _____
 Dialog _____
 Questel/Orbit _____
 Dr.Link _____
 Lexis/Nexis _____
 Sequence Systems _____
 WWW/Internet _____
 Other (specify) _____

ask
Jan Delaval
for search

Access DB# 93716

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Robert (Reib) Shinn Examiner #: 7952 Date: 5/4/03
Art Unit: 1626 Phone Number 308-4002 Serial Number: 10035753
Mail Box and Bldg/Room Location: 3008/3019 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

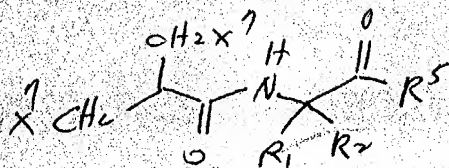
Title of Invention: Novel compound and compositions and methods of inhibition
Inventors (please provide full names): Graupe et al

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

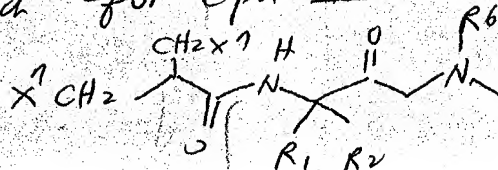
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07-703-308-4498
jan.delaval@uspto.gov

I. Search. cpd I



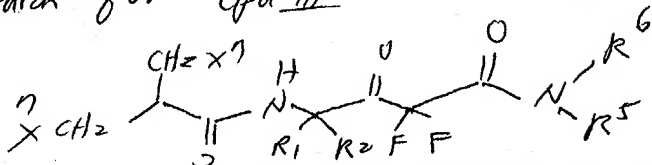
R1, R2, R5, are sub.

II search for cpd II



R1, R2, R5, R6, x? are sub.

III search for cpd III



R1, R2, R6, x? are sub.

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Searcher: Jan

Searcher Phone #: 4498

Searcher Location: _____

Date Searcher Picked Up: 5/27/03

Date Completed: 5/27/03

Searcher Prep & Review Time: _____

Clerical Prep Time: 15

Online Time: 130

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) ☒

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN ☒ _____

Dialog _____

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

Sequence Systems _____

WWW/Internet _____

Other (specify) _____

=> fil reg

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STRUCTURE FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1
DICTIONARY FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

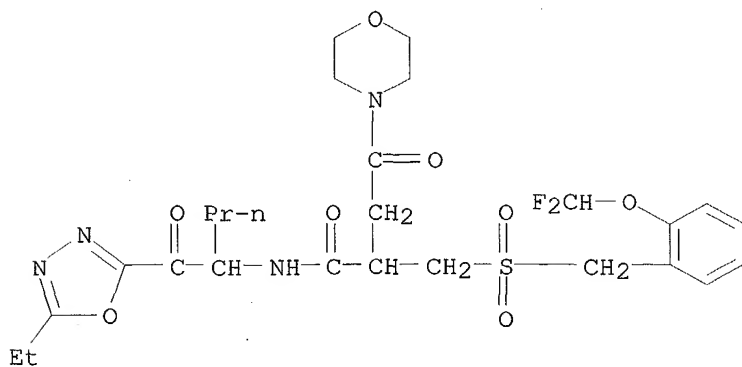
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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d ide can 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 440127-27-5 REGISTRY
CN 4-Morpholinebutanamide, .alpha.-[[[2-(difluoromethoxy)phenyl]methyl]sulfonylmethyl]-N-[1-[(5-ethyl-1,3,4-oxadiazol-2-yl)carbonyl]butyl]-.gamma.-oxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C26 H34 F2 N4 O8 S
SR CA
LC STN Files: CA, CAPLUS



Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 137:78943

=> fil hcaplus

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FILE COVERS 1907 - 27 May 2003 VOL 138 ISS 22
FILE LAST UPDATED: 26 May 2003 (20030526/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17

L14 1 L7

=> d bib abs retable hitstr

✓ L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:504904 HCAPLUS

DN 137:78943

TI Preparation of N-[1-(benzoxazolylcarbonyl)alkyl]- and N-[1-(oxadiazolylcarbonyl)alkyl]alkanamides and related compounds as selective cathepsin S inhibitors

IN Halley, Frank; Graupe, Michael; Patterson, John; Pickett, Stephen D.; Link, John; Li, Jiayao; Aldous, David; Thurairatnam, Sukanthini; Timm, Andreas; Lai, Justine

PA Celera, An Applera Corporation Business, USA

SO PCT Int. Appl., 724 pp.

CODEN: PIXXD2

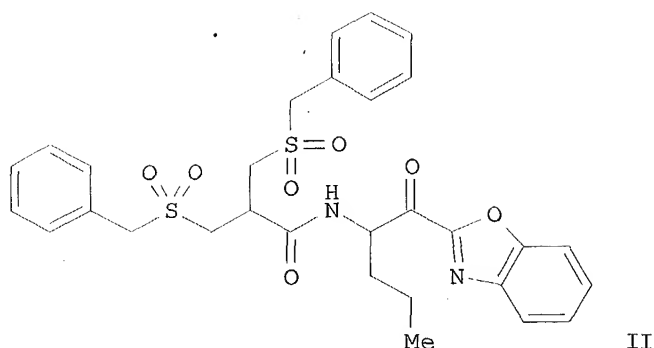
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002051983	A2	20020704	WO 2001-US50680	20011224
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2000-257603P	P	20001222		
OS	MARPAT 137:78943				
GI					

SP16



AB Title compds. of the formula $R_3R_4CHCONHX_1$ [I; wherein $X_1 = CR_1R_2X_2$ or X_3 ; $X_2 = CN, CHO$, or (un)substituted (cyclo)alkyl, (hetero)arylalkyl, carbamoylalkyl, aminoalkyl, alkoxyalkyl, sulfamoylalkyl, etc.; $X_3 =$ substituted (thi)oxopyrrolidinyl, (thi)oxopiperidinyl, (thi)oxotetrahydro(thio)pyranyl, (thi)oxotetrahydrofuranlyl, (thi)oxotetrahydrothiophenyl, etc.; R_1 and R_2 are both F; or $R_1 = H$ or alkyl and $R_2 = H$, alkyl, CN, or (un)substituted amino(alkyl), carbamoyl(alkyl), carboxyamino(alkyl), acyl(alkyl), carboxy(alkyl), sulfamoyl(alkyl), phosphono(alkyl), etc.; or $CR_1R_2 =$ (un)substituted (hetero)cycloalkyl; R_3 and $R_4 =$ independently $CR_{16}R_{17}X_7$; R_{16} and $R_{17} =$ independently H, alkyl, or F; or $R_{16} = H$ and $R_{17} = OH$; $X_7 =$ (un)substituted amino(alkyl), carbamoyl(alkyl), carboxyamino(alkyl), acyl(alkyl), carboxy(alkyl), sulfamoyl(alkyl), etc.; and N-oxides, prodrugs, protected derivs., isomers, pharmaceutically acceptable salts, and solvates thereof] were prep'd. for treatment of cathepsin S mediated diseases. For example, reaction of 3-benzylsulfanyl-2-benzylsulfanylmethylpropionic acid (prepn. given) with 2(S)-amino-1-(benzoxazol-2-yl)-1-pentanol in the presence of HOBt.bul.H₂O and EDC in CH₂Cl₂ afforded the amide. Oxidn. of the sulfide groups using Oxone (41%), followed by treatment with Dess-Martin periodinane (74%), gave the title (S)-N-[1-(benzoxazolylmethanoyl)butyl]propanamide (S)-II. I inhibited human cathepsin S protease activity ($K_i = 0.1 \mu M$ to $0.1 nM$) at concns. that were at least 50-fold less than those required to produce an equiv. inhibition of human cathepsin K protease activity. Thus, I are useful for the treatment of diseases mediated by cathepsin S activity, such as autoimmune disorders, disorders involving excessive elastolysis, systemic amyloidosis (no data).

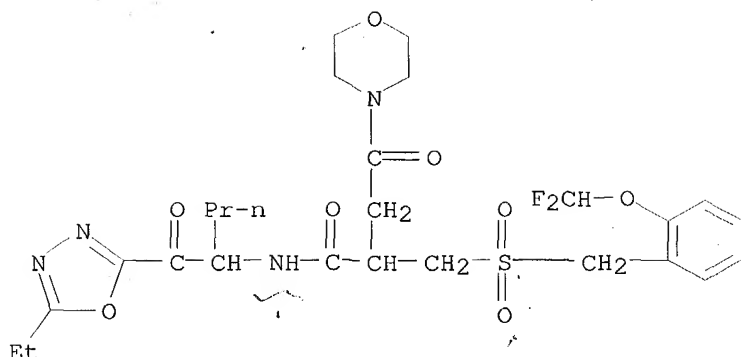
IT 440127-27-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cathepsin S inhibitor; prep'n. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

RN 440127-27-5 HCAPLUS

CN 4-Morpholinebutanamide, .alpha.-[[[2-(difluoromethoxy)phenyl]methyl]sulfonyl]methyl]-N-[1-[(5-ethyl-1,3,4-oxadiazol-2-yl)carbonyl]butyl]-.gamma.-oxo- (9CI) (CA INDEX NAME)



specific

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 15:41:32 ON 27 MAY 2003
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FILE 'USPAT2' ENTERED AT 15:41:32 ON 27 MAY 2003
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L15 0 L7

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DICTIONARY FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

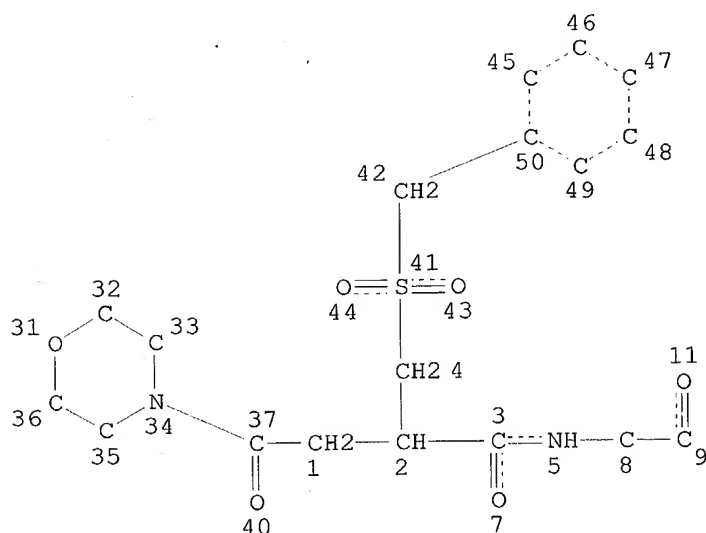
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d sta que l18

L16 STR



NODE ATTRIBUTES:

NSPEC IS RC AT 8
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE

L18 24 SEA FILE=REGISTRY SSS FUL L16

100.0% PROCESSED 51 ITERATIONS
 SEARCH TIME: 00.00.01

24 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 15:25:16 ON 27 MAY 2003)
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:25:37 ON 27 MAY 2003

E US2000-257603/AP, PRN
 L1 1 S E5
 E WO2001-US50680/AP, PRN
 L2 1 S E3
 L3 1 S L1, L2
 SEL RN

FILE 'REGISTRY' ENTERED AT 15:26:58 ON 27 MAY 2003

L4 330 S E1-E330
 L5 12 S L4 AND NC2OC2/ES AND N2COC/ES AND 46.150.18/RID
 L6 4 S L5 AND 3/NR
 L7 1 S L5 AND C26H34F2N4O8S
 SEL RN
 L8 0 S E331/CRN
 L9 STR
 L10 2 S L9
 L11 STR L9

L12 1 S L11
L13 105 S L4 AND NC2OC2/ES
FILE 'REGISTRY' ENTERED AT 15:41:06 ON 27 MAY 2003
FILE 'HCAPLUS' ENTERED AT 15:41:17 ON 27 MAY 2003
L14 1 S L7
FILE 'USPATFULL, USPAT2' ENTERED AT 15:41:32 ON 27 MAY 2003
L15 0 S L7
FILE 'REGISTRY' ENTERED AT 15:42:15 ON 27 MAY 2003
FILE 'REGISTRY' ENTERED AT 15:45:58 ON 27 MAY 2003
L16 STR L11
L17 1 S L16
L18 24 S L16 FUL
SAV L18 TEMP SHIA0035/A
L19 23 S L18 NOT L7
FILE 'HCAOLD' ENTERED AT 15:47:17 ON 27 MAY 2003
L20 0 S L19
FILE 'HCAPLUS' ENTERED AT 15:47:19 ON 27 MAY 2003
L21 1 S L19
FILE 'USPATFULL, USPAT2' ENTERED AT 15:47:25 ON 27 MAY 2003
L22 0 S L19
FILE 'REGISTRY' ENTERED AT 15:47:40 ON 27 MAY 2003

=> fil hcaplus

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FILE COVERS 1907 - 27 May 2003 VOL 138 ISS 22
FILE LAST UPDATED: 26 May 2003 (20030526/ED)

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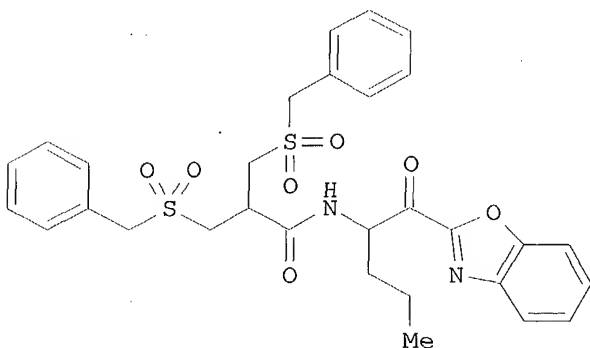
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L21 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:504904 HCAPLUS
DN 137:78943
TI Preparation of N-[1-(benzoxazolylcarbonyl)alkyl]- and N-[1-(oxadiazolylcarbonyl)alkyl]alkanamides and related compounds as selective cathepsin S inhibitors

IN Halley, Frank; Graupe, Michael; Patterson, John; Pickett, Stephen D.; Link, John; Li, Jiayao; Aldous, David; Thuraiaratnam, Sukanthini; Timm, Andreas; Lai, Justine
 PA Celera, An Applera Corporation Business, USA
 SO PCT Int. Appl., 724 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C12N
 CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002051983	A2	20020704	WO 2001-US50680	20011224
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2000-257603P	P	20001222		
OS	MARPAT 137:78943				
GI					



AB Title compds. of the formula R3R4CHCONHX1 [I; wherein X1 = CR1R2X2 or X3; X2 = CN, CHO, or (un)substituted (cyclo)alkyl, (hetero)arylalkyl, carbamoylalkyl, aminoalkyl, alkoxyalkyl, sulfamoylalkyl, etc.; X3 = substituted (thi)oxopyrrolidinyl, (thi)oxopiperidinyl, (thi)oxotetrahydro(thio)pyranyl, (thi)oxotetrahydrofuranlyl, (thi)oxotetrahydrothiophenyl, etc.; R1 and R2 are both F; or R1 = H or alkyl and R2 = H, alkyl, CN, or (un)substituted amino(alkyl), carbamoyl(alkyl), carboxyamino(alkyl), acyl(alkyl), carboxy(alkyl), sulfamoyl(alkyl), phosphono(alkyl), etc.; or CR1R2 = (un)substituted (hetero)cycloalkyl; R3 and R4 = independently CR16R17X7; R16 and R17 = independently H, alkyl, or F; or R16 = H and R17 = OH; X7 = (un)substituted amino(alkyl), carbamoyl(alkyl), carboxyamino(alkyl), acyl(alkyl), carboxy(alkyl), sulfamoyl(alkyl), etc.; and N-oxides, prodrugs, protected derivs., isomers, pharmaceutically acceptable salts, and solvates thereof] were prepd. for treatment of cathepsin S mediated diseases. For example, reaction of 3-benzylsulfanyl-2-benzylsulfanylmethylpropionic acid (prepn. given) with 2(S)-amino-1-(benzoxazol-2-yl)-1-pentanol in the presence of HOBt.bul.H2O

and EDC in CH₂Cl₂ afforded the amide. Oxidn. of the sulfide groups using Oxone (41%), followed by treatment with Dess-Martin periodinane (74%), gave the title, (S)-N-[1-(benzoxazolylmethanoyl)butyl]propanamide (S)-II. I inhibited human cathepsin S protease activity ($K_i = 0.1 \mu\text{M}$ to 0.1 nM) at concns. that were at least 50-fold less than those required to produce an equiv. inhibition of human cathepsin K protease activity. Thus, I are useful for the treatment of diseases mediated by cathepsin S activity, such as autoimmune disorders, disorders involving excessive elastolysis, systemic amyloidosis (no data).

- ST benzoxazolyl oxadiazolyl alkanamide prepn selective cathepsin S inhibitor
IT Organelle
 (elastic fiber, excessive elastolysis, treatment; prepn. of
 N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)
- IT Autoimmune disease
 Drugs
 Human
 Immunomodulators
 (prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)
- IT Drug delivery systems
 (prodrugs; prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)
- IT Amyloidosis
 (treatment; prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)
- IT 440126-41-OP
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (cathepsin S inhibitor; prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)
- IT 440126-09-OP 440126-12-5P 440126-13-6P 440126-14-7P 440126-15-8P
440126-16-9P 440126-17-0P 440126-18-1P 440126-19-2P
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440126-28-3P 440126-29-4P 440126-30-7P 440126-31-8P
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440126-61-4P 440126-62-5P 440126-63-6P 440126-64-7P
440126-66-9P 440126-67-0P 440126-68-1P 440126-69-2P
440126-71-6P 440126-74-9P 440126-77-2P 440126-79-4P
440126-83-0P 440126-86-3P 440126-88-5P 440126-90-9P
440126-92-1P 440126-94-3P 440126-96-5P 440126-98-7P
440127-02-6P 440127-04-8P 440127-06-0P 440127-10-6P
440127-13-9P 440127-15-1P 440127-17-3P 440127-19-5P
440127-21-9P 440127-23-1P 440127-24-2P 440127-25-3P
440127-26-4P 440127-27-5P 440127-28-6P 440127-29-7P
440127-31-1P 440127-33-3P 440127-34-4P 440127-36-6P
440127-39-9P 440127-41-3P 440127-42-4P 440127-43-5P
440127-44-6P 440127-47-9P 440127-48-0P 440127-49-1P 440127-50-4P
440127-51-5P 440127-52-6P 440127-53-7P 440127-54-8P 440127-55-9P
440127-56-0P 440127-57-1P 440127-58-2P 440127-59-3P 440127-60-6P
440127-61-7P 440127-62-8P 440127-63-9P 440127-64-0P 440127-65-1P

440127-66-2P 440127-67-3P 440127-69-5P 440127-76-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cathepsin S inhibitor; prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

IT 81079-76-7P, 3-Benzylsulfanyl-2-benzylsulfanylmethylpropionic acid ethyl ester 81079-79-0P 91142-71-1P 153371-25-6P 440125-03-1P, 2,2-Bis(methylsulfonyloxymethyl)malonic acid diethyl ester 440125-04-2P 440125-06-4P, 2-Benzylsulfanylmethyl-3-cyclohexylpropionic acid 440125-07-5P 440125-08-6P 440125-09-7P 440125-10-0P, 2,2-Bis(2-phenylsulfanylethyl)malonic acid diethyl ester 440125-11-1P, 2,2-Bis(2-phenylsulfanylethyl)malonic acid 440125-12-2P, 4-Phenylsulfanyl-2-(2-phenylsulfanylethyl)butyric acid 440125-13-3P 440125-14-4P, (S)-4-Amino-2,2-difluoro-3-hydroxyhexanoic acid dimethylamide 440125-15-5P 440125-17-7P 440125-18-8P 440125-19-9P 440125-20-2P 440127-75-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of (benzoxazolylcarbonylalkyl)- and (oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

IT 273-97-2P, Oxazolo[4,5-b]pyridine 825-56-9P, 2-Phenyl-1,3,4-oxadiazole 3275-37-4P 64001-70-3P, 2-(Pyridin-4-yl)-1,3,4-oxadiazole 87974-75-2P 109608-77-7P 121533-11-7P 150736-72-4P, (S)-2-Bocamino-1-butanol 150989-62-1P, 2,3,4,7-Tetrahydroazepine-1-carboxylic acid benzyl ester 160801-72-9P 190141-99-2P, 3-Amino-4-hydroxypyrrolidine-1-carboxylic acid tert-butyl ester 281219-32-7P, Allylpent-4-enylcarbamic acid benzyl ester 281219-33-8P, 4-Azido-3-hydroxyazepane-1-carboxylic acid benzyl ester 346690-97-9P, (1-Formylpropyl)carbamic acid tert-butyl ester 349671-19-8P 440125-21-3P 440125-22-4P 440125-23-5P, (S)-2-Amino-1-(3-phenyl[1,2,4]oxadiazol-5-yl)butan-1-one 440125-25-7P 440125-26-8P, 2-Amino-1-(2-phenyl[1,3]dithian-2-yl)hexan-1-ol hydrochloride 440125-27-9P, 2-Bocamino-2-methyl-1-(oxazolo[4,5-b]pyridin-2-yl)-1-propanol 440125-29-1P 440125-30-4P, 2-Methoxymethyl[1,3,4]oxadiazole 440125-31-5P 440125-33-7P 440125-34-8P, 2-(2-Bocamino-1-hydroxybutyl)-5-phenyl-1,3,4-oxadiazole 440125-36-0P 440125-37-1P, 2-Bocamino-1-(oxazolo[4,5-b]pyridin-2-yl)-1-butanol 440125-39-3P 440125-40-6P 440125-42-8P 440125-43-9P 440125-45-1P 440125-47-3P 440125-48-4P, [1-(Benzoxazol-2-yl)hydroxymethyl]propylcarbamic acid tert-butyl ester 440125-50-8P 440125-51-9P, 4-Benzyl-3-(4-cyclohexylbutyryl)oxazolidin-2-one 440125-52-0P, 1-(4-Benzyl-2-oxooxazolidin-3-yl)-2-(2-cyclohexylethyl)-4-morpholin-4-ylbutane-1,4-dione 440125-53-1P, (2R)-1-((4S)-4-Benzyl-2-oxooxazolidin-3-yl)-2-cyclohexylmethyl-4-morpholin-4-ylbutane-1,4-dione 440125-54-2P 440125-55-3P 440125-56-4P 440125-57-5P 440125-58-6P 440125-59-7P 440125-60-0P 440125-61-1P 440125-62-2P, 2-Amino-1-(5-phenyl[1,2,4]oxadiazol-3-yl)butan-1-ol 440125-63-3P 440125-64-4P 440125-65-5P 440125-66-6P 440125-67-7P 440125-68-8P 440125-69-9P, 3-Ethylsulfanyl-2-(tetrahydropyran-4-yloxymethyl)propionic acid ethyl ester 440125-70-2P 440125-71-3P 440125-72-4P 440125-73-5P 440125-74-6P 440125-75-7P 440125-76-8P 440125-77-9P 440125-78-0P 440125-79-1P 440125-80-4P 440125-81-5P 440125-82-6P 440125-83-7P 440125-84-8P 440125-85-9P 440125-86-0P 440125-88-2P, [1-(Benzoxazole-2-carbonyl)propyl]carbamic acid tert-butyl ester 440125-89-3P, 2-Amino-1-benzoxazol-2-ylbutan-1-one hydrochloride 440125-90-6P 440125-91-7P 440125-92-8P 440125-93-9P 440125-94-0P, (S)-2-Amino-2-methylpentan-1-ol 440125-95-1P 440125-96-2P 440125-97-3P 440125-98-4P 440125-99-5P, (S)-2-Amino-2-methyl-1-(oxazol-2-yl)pentan-1-one 440126-00-1P 440126-01-2P 440126-02-3P 440126-03-4P, 2-Amino-1-benzoxazol-2-yl-2-methylpentan-1-one 440126-04-5P, 2-Amino-1-benzoxazol-2-yl-2-methyl-4-phenylbutan-1-one

440126-05-6P, 2-Amino-1-benzoxazol-2-yl-2-methylbutan-1-one 440126-06-7P
 440126-07-8P 440126-08-9P 440126-10-3P 440126-11-4P 440126-35-2P
 440126-38-5P 440126-39-6P 440126-65-8P 440126-73-8P 440126-76-1P
 440126-78-3P 440126-82-9P 440126-85-2P 440126-87-4P 440126-89-6P
 440126-91-0P 440126-93-2P 440126-95-4P 440126-97-6P 440127-01-5P
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 440127-16-2P 440127-18-4P 440127-20-8P 440127-22-0P 440127-30-0P
 440127-38-8P 440127-46-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

IT 71965-46-3, Cathepsin S 94716-09-3, Cathepsin K

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

IT 100-53-8, Benzylmercaptan 105-53-3, Diethyl malonate 109-02-4, 4-Methylmorpholine 667-27-6, Ethyl bromodifluoroacetate 823-78-9, 3-Bromobenzyl bromide 1197-22-4 2170-03-8, 3-Methylenedihydrofuran-2,5-dione 20605-01-0, Diethyl bis(hydroxymethyl)malonate 26039-98-5, 2-Trifluoromethylbenzylmercaptan 29805-59-2, Diethyl [2-cyclohexylmethyl]malonate 72707-66-5, 2-Bromomethylacrylic acid 139617-91-7, 2-Iodoethyl phenyl sulfide 440125-05-3 440125-16-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; prepn. of (benzoxazolylcarbonylalkyl)- and (oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

IT 54-85-3, Isonicotinic hydrazide 78-77-3, 1-Bromo-2-methylpropane 98-80-6, Phenylboronic acid 104-54-1, Cinnamyl alcohol 109-01-3, 1-Methylpiperazine 124-68-5, 2-Amino-2-methyl-1-propanol 273-53-0, Benzoxazole 288-42-6, Oxazole 555-96-4, Benzylhydrazide 617-35-6, Ethyl pyruvate 1068-55-9, Isopropyl magnesium chloride 1119-51-3, 5-Bromo-1-pentene 2081-44-9, 4-Hydroxy tetrahydropyran 2234-82-4, Propylmagnesium chloride 4392-24-9, Cinnamyl bromide 4441-67-2, 4-Cyclohexylbutyryl chloride 5041-33-8 5425-44-5, 2-Phenyl-1,3-dithiane 5856-62-2, (S)-(+)-2-Amino-1-butanol 6290-49-9, Methyl methoxyacetate 7051-34-5, Bromomethylcyclopropane 16867-03-1, 2-Amino-3-hydroxypyridine 17435-72-2, Ethyl 2-(bromomethyl)acrylate 20989-17-7, S-(+)-Phenylglycinol 28188-41-2, 3-Cyanobenzyl bromide 34306-42-8 39098-75-4, 3-Cyclohexylpropionyl chloride 40299-87-4, 2-Bromo-1-morpholin-4-ylethanone 59025-03-5 65943-95-5, 3-[1,3,4]Oxadiazol-2-ylpyridine 85684-64-6, 2-(Difluoromethoxy)benzyl bromide 90719-32-7, (S)-(-)-4-Benzyl-2-oxazolidinone 114214-49-2, 6-Oxa-3-azabicyclo[3.1.0]hexane-3-carboxylic acid tert-butyl ester 166196-01-6, (2-Cyano-1-ethyl-2-hydroxyethyl)carbamic acid tert-butyl ester 281219-28-1, 4-Amino-3-hydroxyazepane-1-carboxylic acid tert-butyl ester 294871-39-9 294885-23-7 294885-26-0, 2-Amino-1-benzoxazol-2-yl-3-methoxypropan-1-ol 324795-39-3 440125-24-6, (1-Formylpentyl)carbamic acid tert-butyl ester 440125-49-5, 1-(4-Benzyl-2-oxooxazolidin-3-yl)-2-cyclohexylmethyl-4-morpholin-4-ylbutane-1,4-dione 440125-87-1, 2-Amino-1-benzoxazol-2-ylbutan-1-ol 440126-25-0 440126-34-1 440126-70-5 440126-72-7 440126-75-0 440126-81-8 440126-84-1 440127-00-4 440127-08-2 440127-11-7 440127-32-2 440127-35-5 440127-37-7 440127-40-2 440127-45-7, 2-Amino-1-benzoxazol-2-ylpentan-1-ol 440127-68-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

IT 440126-16-9P 440126-24-9P 440126-26-1P
 440126-27-2P 440126-28-3P 440126-40-9P

440126-57-8P 440126-64-7P 440126-68-1P
 440126-69-2P 440126-77-2P 440126-86-3P
 440126-92-1P 440126-98-7P 440127-06-0P
 440127-21-9P 440127-26-4P 440127-28-6P
 440127-34-4P 440127-36-6P 440127-39-9P
 440127-41-3P 440127-66-2P

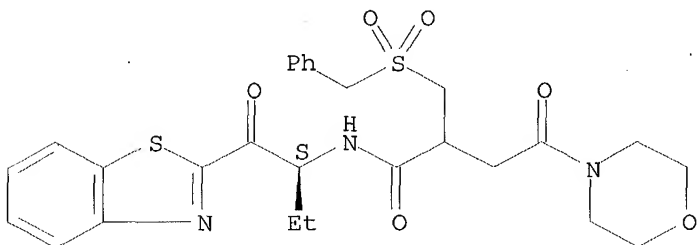
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cathepsin S inhibitor; prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

RN 440126-16-9 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-1-(2-benzothiazolylcarbonyl)propyl]-.gamma.-oxo-.alpha.-[[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

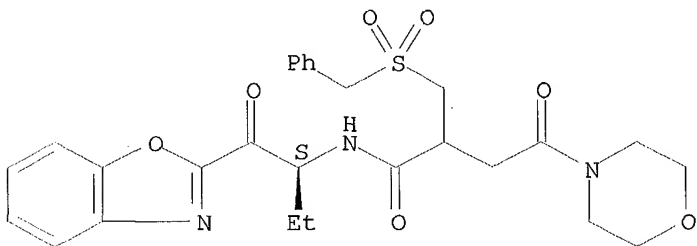
Absolute stereochemistry.



RN 440126-24-9 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-1-(2-benzoxazolylcarbonyl)propyl]-.gamma.-oxo-.alpha.-[[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

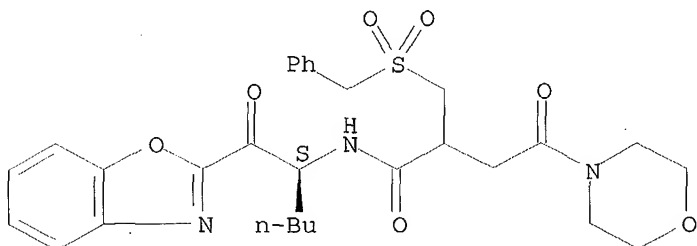
Absolute stereochemistry.



RN 440126-26-1 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-1-(2-benzoxazolylcarbonyl)pentyl]-.gamma.-oxo-.alpha.-[[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

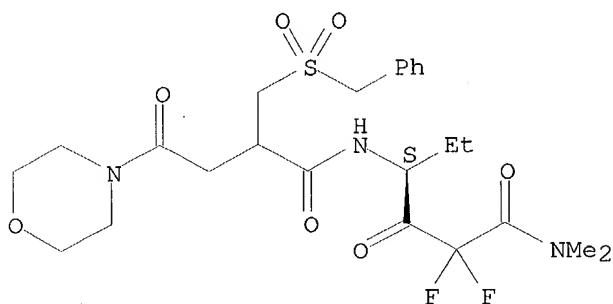
Absolute stereochemistry.



RN 440126-27-2 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-4-(dimethylamino)-1-ethyl-3,3-difluoro-2,4-dioxobutyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI)
(CA INDEX NAME)

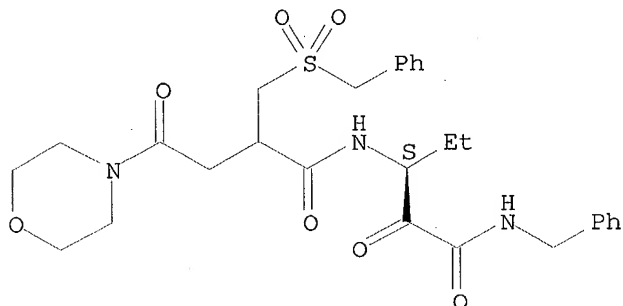
Absolute stereochemistry.



RN 440126-28-3 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-1-ethyl-2,3-dioxo-3-[(phenylmethyl)amino]propyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

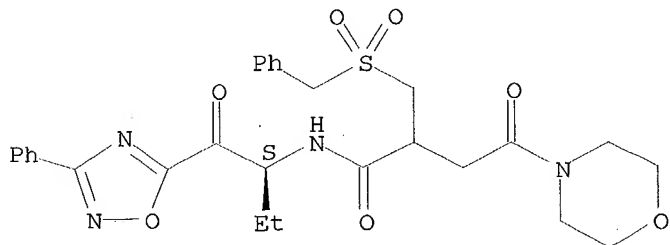
Absolute stereochemistry.



RN 440126-40-9 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-N-[(1S)-1-[(3-phenyl-1,2,4-oxadiazol-5-yl)carbonyl]propyl]- (9CI) (CA INDEX NAME)

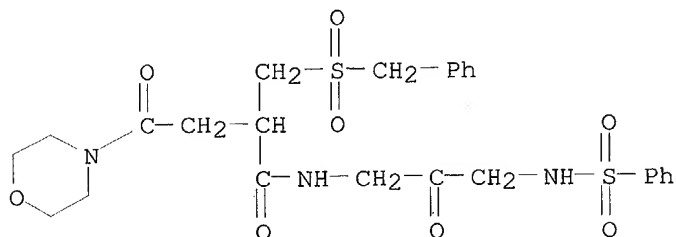
Absolute stereochemistry.



RN 440126-57-8 HCAPLUS

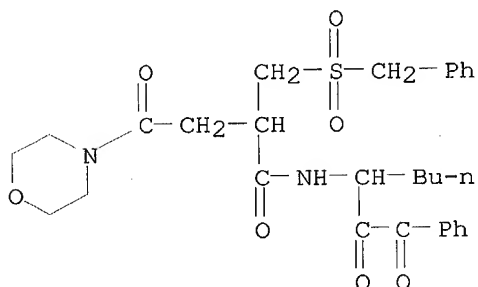
CN 4-Morpholinebutanamide, .gamma.-oxo-N-[2-oxo-3-

[(phenylsulfonyl)amino]propyl]-.alpha.-[[(phenylmethyl) sulfonyl]methyl]-
(9CI) (CA INDEX NAME)



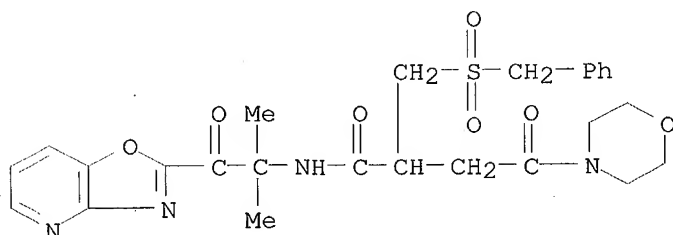
RN 440126-64-7 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-N-[1-(oxophenylacetyl)pentyl]-.alpha.-
[[(phenylmethyl) sulfonyl]methyl]- (9CI) (CA INDEX NAME)



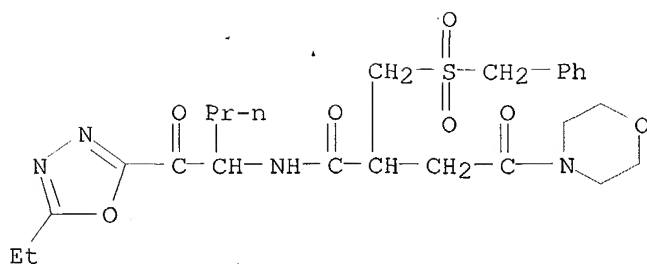
RN 440126-68-1 HCAPLUS

CN 4-Morpholinebutanamide, N-(1,1-dimethyl-2-oxazolo[4,5-b]pyridin-2-yl-2-oxoethyl)-.gamma.-oxo-.alpha.-[[(phenylmethyl) sulfonyl]methyl]- (9CI) (CA INDEX NAME)



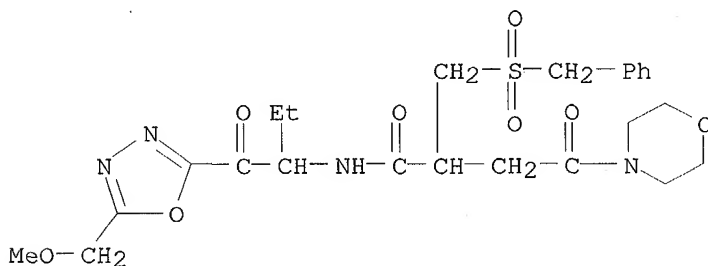
RN 440126-69-2 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-[(5-ethyl-1,3,4-oxadiazol-2-yl)carbonyl]butyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl) sulfonyl]methyl]-
(9CI) (CA INDEX NAME)



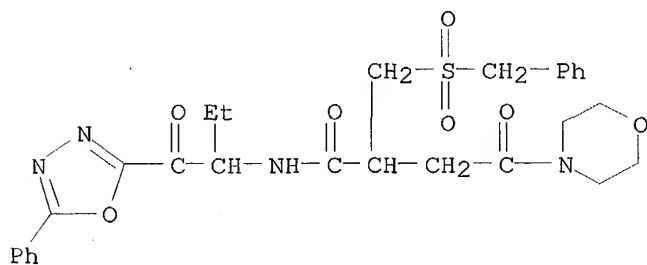
RN 440126-77-2 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-[[5-(methoxymethyl)-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl) sulfonyl]methyl]- (9CI) (CA INDEX NAME)



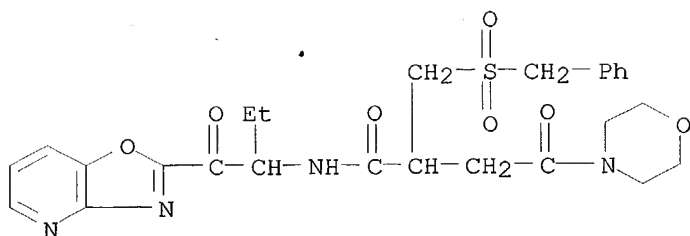
RN 440126-86-3 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[(phenylmethyl) sulfonyl]methyl]-1]-N-[1-[(5-phenyl-1,3,4-oxadiazol-2-yl)carbonyl]propyl]- (9CI) (CA INDEX NAME)



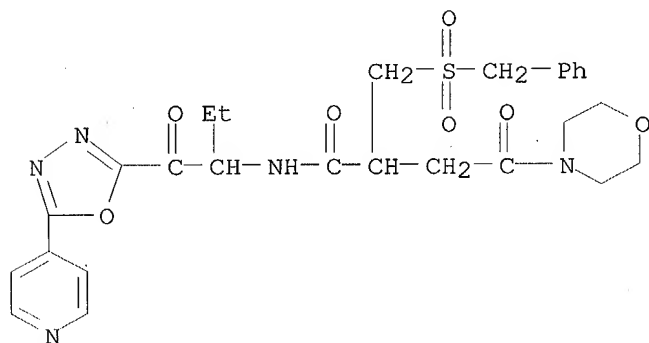
RN 440126-92-1 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-(oxazolo[4,5-b]pyridin-2-ylcarbonyl)propyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl) sulfonyl]methyl]- (9CI) (CA INDEX NAME)



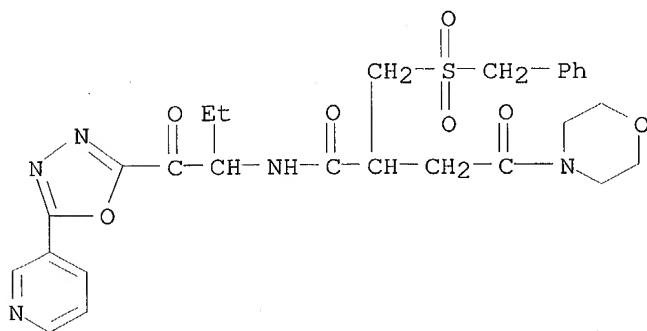
RN 440126-98-7 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-N-[1-[[5-(4-pyridinyl)-1,3,4-oxadiazol-2-yl]carbonyl]propyl]- (9CI)
(CA INDEX NAME)



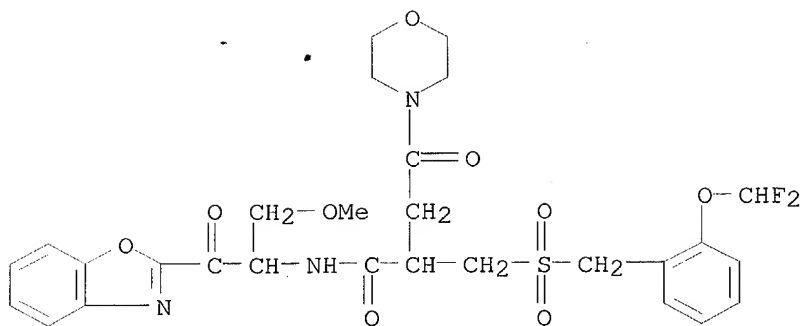
RN 440127-06-0 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-N-[1-[[5-(3-pyridinyl)-1,3,4-oxadiazol-2-yl]carbonyl]propyl]- (9CI)
(CA INDEX NAME)



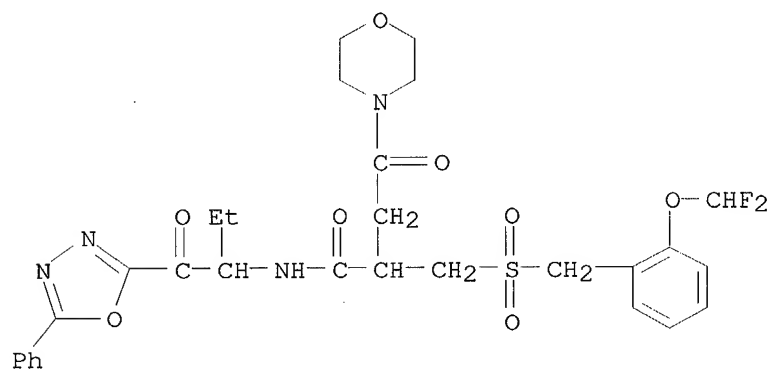
RN 440127-21-9 HCAPLUS

CN 4-Morpholinebutanamide, N-[2-(2-benzoxazolyl)-1-(methoxymethyl)-2-oxoethyl]-.alpha.-[[[2-(difluoromethoxy)phenyl]methyl]sulfonyl]methyl]-.gamma.-oxo- (9CI) (CA INDEX NAME)



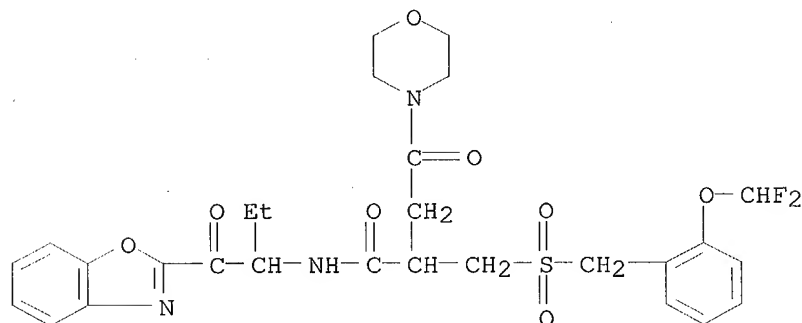
RN 440127-26-4 HCAPLUS

CN 4-Morpholinebutanamide, .alpha.-[[[2-(difluoromethoxy)phenyl]methyl]sulfonyl]methyl]-.gamma.-oxo-N-[1-[(5-phenyl-1,3,4-oxadiazol-2-yl)carbonyl]propyl]- (9CI) (CA INDEX NAME)



RN 440127-28-6 HCAPLUS

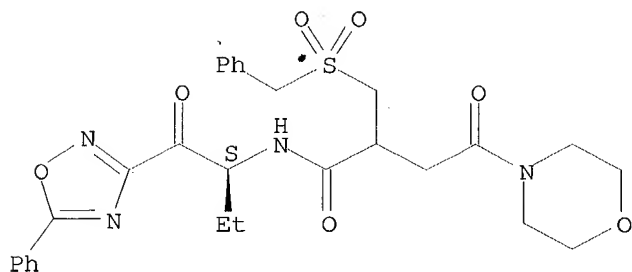
CN 4-Morpholinebutanamide, N-[1-(2-benzoxazolylcarbonyl)propyl]-.alpha.-[[[2-(difluoromethoxy)phenyl]methyl]sulfonyl]methyl]-.gamma.-oxo- (9CI) (CA INDEX NAME)



RN 440127-34-4 HCAPLUS

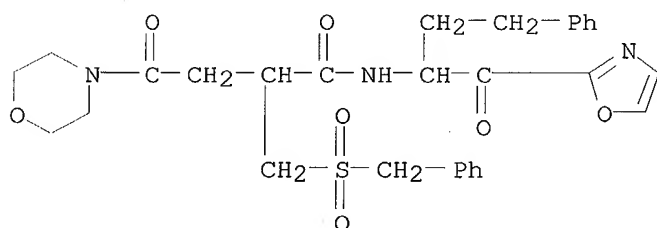
CN 4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[[2-(difluoromethoxy)phenyl]methyl]sulfonyl]methyl]-N-[(1S)-1-[(5-phenyl-1,2,4-oxadiazol-3-yl)carbonyl]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



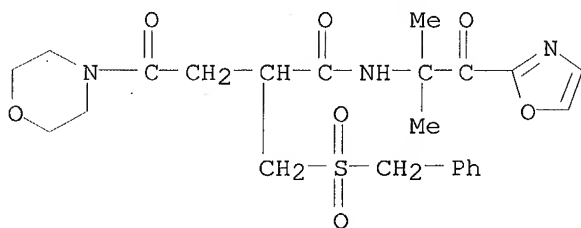
RN 440127-36-6 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-(2-oxazolylcarbonyl)-3-phenylpropyl]-.gamma.-oxo-.alpha.-[(phenylmethyl)sulfonylmethyl]- (9CI) (CA INDEX NAME)



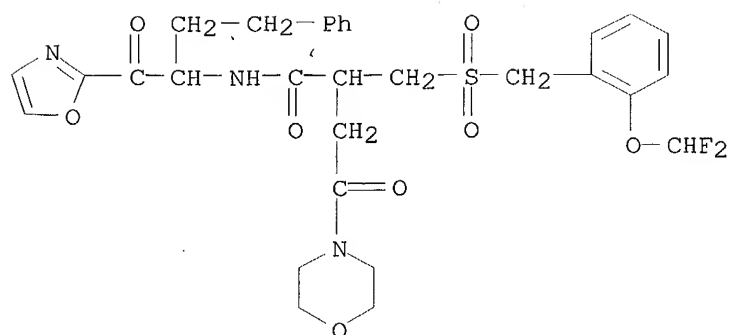
RN 440127-39-9 HCAPLUS

CN 4-Morpholinebutanamide, N-[1,1-dimethyl-2-(2-oxazolyl)-2-oxoethyl]-.gamma.-oxo-.alpha.-[(phenylmethyl)sulfonylmethyl]- (9CI) (CA INDEX NAME)



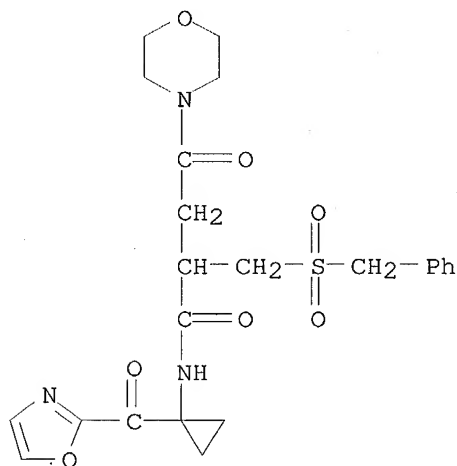
RN 440127-41-3 HCAPLUS

CN 4-Morpholinebutanamide, .alpha.-[[[2-(difluoromethoxy)phenyl]methyl]sulfonylmethyl]-N-[1-(2-oxazolylcarbonyl)-3-phenylpropyl]-.gamma.-oxo- (9CI) (CA INDEX NAME)



RN 440127-66-2 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-(2-oxazolylcarbonyl)cyclopropyl]-.gamma.-oxo-.alpha.-[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)



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SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:25:37 ON 27 MAY 2003

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SEL RN

FILE 'REGISTRY' ENTERED AT 15:26:58 ON 27 MAY 2003

L4 330 S E1-E330

L5 12 S L4 AND NC2OC2/ES AND N2COC/ES AND 46.150.18/RID

L6 4 S L5 AND 3/NR

L7 1 S L5 AND C26H34F2N4O8S

SEL RN

L8 0 S E331/CRN

L9 STR
L10 2 S L9
L11 STR L9
L12 1 S L11
L13 105 S L4 AND NC2OC2/ES

FILE 'REGISTRY' ENTERED AT 15:41:06 ON 27 MAY 2003

L14 FILE 'HCAPLUS' ENTERED AT 15:41:17 ON 27 MAY 2003
1 S L7

L15 FILE 'USPATFULL, USPAT2' ENTERED AT 15:41:32 ON 27 MAY 2003
0 S L7

FILE 'REGISTRY' ENTERED AT 15:42:15 ON 27 MAY 2003

L16 FILE 'REGISTRY' ENTERED AT 15:45:58 ON 27 MAY 2003
STR L11
L17 1 S L16
L18 24 S L16 FUL
SAV L18 TEMP SHIA0035/A
L19 23 S L18 NOT L7

L20 FILE 'HCAOLD' ENTERED AT 15:47:17 ON 27 MAY 2003
0 S L19

L21 FILE 'HCAPLUS' ENTERED AT 15:47:19 ON 27 MAY 2003
1 S L19

L22 FILE 'USPATFULL, USPAT2' ENTERED AT 15:47:25 ON 27 MAY 2003
0 S L19

FILE 'REGISTRY' ENTERED AT 15:47:40 ON 27 MAY 2003

FILE 'HCAPLUS' ENTERED AT 15:47:48 ON 27 MAY 2003